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United States Department of Agriculture,

MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1922.]

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~~Do~~ Send no remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

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FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

~~Do~~ Note.—As long as the department's somewhat limited supply of the current numbers of Farmers' Bulletins lasts they may be obtained by all applicants free of charge. They are also for sale at 5 cents per copy unless otherwise noted.

Some Common Edible and Poisonous Mushrooms. By Flora W. Patterson and Vera K. Charles, Mycologists, Office of Pathological Collections, Bureau of Plant Industry. Pp. 24, figs. 22. Revised July, 1922. (**Farmers' Bulletin 796.**)

Suitable for general distribution.

Dehorning and Castrating Cattle. By Frank W. Farley, Senior Animal Husbandman, Animal Husbandry Division, Bureau of Animal Industry. Pp. 14, figs. 16. Revised September, 1922. (**Farmers' Bulletin 949.**)

Suitable for general distribution.

Cooling Milk and Cream on the Farm. By J. A. Gamble, Market Milk Specialist, Dairy Division, Bureau of Animal Industry. Pp. 16, figs. 8. Revised October, 1922. (**Farmers' Bulletin 976.**)

Suitable for general distribution.

Determining the Age of Cattle by the Teeth. By George W. Pope, Veterinary Inspector, Field Inspection Division, Bureau of Animal Industry. Pp. 4, figs. 6. Revised October, 1922. (**Farmers' Bulletin 1066.**)

Suitable for general distribution.

Hog Lice and Hog Mange. By Marion Imes, Veterinary Inspector, Zoological Division, Bureau of Animal Industry. Pp. 28, figs. 11. Revised September, 1922. (**Farmers' Bulletin 1085.**)

Discusses the control of hog lice and hog mange and suggests methods of eradication.

Breeds of Swine. By E. Z. Russell, Animal Husbandry Division. Pp. 22, figs. 18. (Contributed from the Bureau of Animal Industry, June, 1922. (**Farmers' Bulletin 1263.**)

Suitable for general distribution. Supersedes Farmers' Bulletin 765.

Farm Lands Available for Settlement. By B. Henderson, Junior Agricultural Economist, Section of Land Economics, Bureau of Agricultural Economics. Pp. 51, figs. 11. October, 1922. (**Farmers' Bulletin 1271.**) Price — cents.

This bulletin is designed to point out and describe briefly the land in the United States available for settlement, and to tell the prospective settler something about the conditions he may expect to meet, the types of farming prevailing in the different districts, and the agencies to which he may apply for information.

Renting Dairy Farms. By Howard A. Turner, Junior Agricultural Economist, Office of Farm Management and Farm Economics. Pp. 24. July, 1922. (**Farmers' Bulletin 1272.**)

A discussion of the various questions which arise when dairy farms are rented on half share receipts, by cash and by crop shares.

The Velvet Bean. By C. V. Piper, Agrostologist in Charge, and W. J. Morse, Agronomist, Office of Forage-Crop Investigations, Bureau of Plant Industry. Pp. 27, figs. 14. (*Farmers' Bulletin 1276.*)

A revision and extension of Farmers' Bulletin 962.

Plain Concrete for Farm Use. By T. A. H. Miller, Agricultural Engineer, Division of Agricultural Engineering, Bureau of Public Roads. Pp. 27, figs. 19. October, 1922. (*Farmers' Bulletin 1279.*)

This bulletin discusses the requirements of good concrete and describes the making and placing of plain concrete according to best practice.

Apple-Orchard Renovation. By H. P. Gould, Pomologist, Office of Horticultural and Pomological Investigations, Bureau of Plant Industry. Pp. 32, figs. 25. October, 1922. (*Farmers' Bulletin 1284.*)

Of interest to persons who are anxious to renovate an apple orchard that has been mismanaged or neglected.

The Red-Necked Raspberry Cane-Borer. By F. H. Chittenden, Entomologist in Charge, Truck-Crop Insect Investigations, Bureau of Entomology. Pp. 5, figs. 5. September, 1922. (*Farmers' Bulletin 1286.*)

This bulletin describes the injurious work of the red-necked raspberry cane-borer, discusses its seasonal history and habits, and gives a remedy for its control.

The Bulk Handling of Grain. By E. N. Bates, Investigator in Grain Handling, and A. L. Rush, formerly Investigator in Bulk Grain Handling, Grain Investigations, Bureau of Agricultural Economics. Pp. 22, figs. 17. October, 1922. (*Farmers' Bulletin 1290.*)

Discusses the advantages derived from handling grain in bulk rather than in bags. Prepared with special reference to the Pacific Coast States.

DEPARTMENT BULLETINS—TECHNICAL.

The publications listed below are technical or scientific bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts.

The Microscopical Examination of Flour. By George L. Keenan, Microanalyst, and Mary A. Lyons, Microanalyst, Microchemical Laboratory. Pp. 32. Contribution from the Bureau of Chemistry. Revised August, 1922. (*Department Bulletin 839.*) Price, 5 cents.

Of interest to chemists and food inspectors.

Portland Cement Concrete Roads. By James T. Voshell, and R. E. Toms, Bureau of Public Roads. Pp. 67, figs. 15, pls. 10. October 21, 1922. (*Department Bulletin 1077.*) Price, 15 cents.

The purpose of this bulletin is to supply reliable information on the subject of concrete pavements for the use of highway engineers and others interested in the improvement of public roads.

Beaver Habits, Beaver Control and Possibilities in Beaver Farming. By Vernon Bailey, Chief Field Naturalist, Division of Biological Investigations, Bureau of Biological Survey. Pp. 31, figs. 7, pls. 7. October 18, 1922. (*Department Bulletin 1078.*) Price, 15 cents.

Discusses methods of dealing with beavers when their operations conflict with agriculture and other human activities, methods of transporting them to localities where they may be conserved as a valuable and interesting natural resource, and methods of utilizing them as an important supplement to the fur supply by establishing them in suitable climates, particularly in certain waste lands and other areas unsuited to agriculture.

The Production of Tulip Bulbs. By David Griffiths, Horticulturist, Office of Horticultural and Pomological Investigations, Bureau of Plant Industry. Pp. 48, pls. 20. October 19, 1922. (*Department Bulletin 1082.*) Price, 20 cents.

Contains directions for the production of tulip bulbs on a commercial scale, and discusses the future of the tulip bulb industry in America.

Alfalfa Root Studies. By Samuel Garver, Assistant Agrostologist, Bureau of Plant Industry. Pp. 28, figs. 19. (*Professional Paper.*) Nov. 3, 1922. (*Department Bulletin 1087.*) Price, 10 cents.

This bulletin, as results of experiments conducted at the Redfield Field Station in South Dakota under varying conditions, shows that the main factors tending to produce modifications in tap roots of Alfalfa are soil, cultural treatment, and injuries.

Life History of the Kangaroo Rat. (*Dipodomys spectabilis spectabilis Merriam.*) By Charles T. Vorhies, Entomologist, Agricultural Experiment Station, University of Arizona; and Walter P. Taylor, Assistant Biologist, Bureau of Biological Survey, U. S. Department of Agriculture. Pp. 40, pls. 9, figs. 3. (*Professional Paper.*) September 13, 1922. (*Department Bulletin 1091.*) Price, 15 cents.

Contains a summary of the results of investigations of the relation of a subspecies of Kangaroo rat to the carrying capacity of the open ranges, being one phase of a general study of the life histories of rodent groups as they affect agriculture, forestry, and grazing.

Impounding Water in a Bayou to Control Breeding of Malaria Mosquitoes. By D. L. Van Dine, Entomologist, Investigations of Insects Affecting the Health of Man, Bureau of Entomology. Pp. 22, figs. 2, pls. 9. October 20, 1922. (*Department Bulletin 1098.*) Price, 15 cents.

This bulletin discusses the methods used in and results obtained by impounding water in the bayous of the lower Mississippi delta region in order to control malaria development.

Unit Requirements for Producing Market Milk in Delaware. By J. B. Bain, Market Milk Specialist, and Ralph P. Hotis, Assistant Market Milk Specialist, Dairy Division, Bureau of Animal Industry. Pp. 16. Nov. 2, 1922. (*Department Bulletin 1101.*) Price, 5 cents.

Discusses the cost of producing and marketing milk in Delaware.

Legal Phases of Cooperative Associations. By L. S. Hulbert, Assistant in Cooperative Marketing, Bureau of Agricultural Economics. Pp. 74. October 23, 1922. (*Department Bulletin 1106.*) Price, 15 cents.

A discussion of the legal phases found in the decisions of courts of last resort in this country, relative to cooperative associations. The principles applied and announced in these decisions are set forth in the bulletin, together with references to the cases cited.

Tables for the Microscopic Identification of Inorganic Salts. By William H. Fry, Scientist in Chemical Investigations, Bureau of Soils. Pp. 22. November 6, 1922. (**Department Bulletin 1108.**) Price, 5 cents.

Of interest to chemists and investigators.

One-Variety Cotton Communities. By O. F. Cook, Bionomist in Charge of the Office of Crop Acclimatization and Adaptation Investigations, Bureau of Plant Industry. Pp. 50. November 25, 1922. (**Department Bulletin 1111.**) Price, 10 cents.

A discussion of the advantages that are derived when one variety of cotton is planted in a single community.

Seedling Blight and Stack-Burn of Rice and the Hot-Water Seed Treatment. By W. L. Tisdale, Pathologist in Charge of Smut Investigations, Office of Cereal Investigations, Bureau of Plant Industry. Pp. 11, pls. 6, figs. 2. (**Professional Paper**, November 13, 1922. (**Department Bulletin 1116.**) Price, 10 cents.

Proportioning the Ingredients for Ice Cream and Other Frozen Products by the Balance Method. By O. E. Williams, Dairy Manufacturing Specialist, Dairy Division, Bureau of Animal Industry. Pp. 13. November 6, 1922. (**Department Bulletin 1123.**) Price, 5 cents.

A technical discussion of a method of calculating mixes of ice cream and other frozen products. Of interest to manufacturers of such products.

The Marketing of Mill Feeds. By G. C. Wheeler, Investigator in Feed Marketing, Bureau of Agricultural Economics. Pp. 20, fig. 1. November 20, 1922. (**Department Bulletin 1124.**) Price, 5 cents.

A discussion which aims to acquaint dairymen with the various phases of feed marketing, enabling them to purchase their feed more advantageously and at the same time place them in a position to determine with little effort what prices they should pay for straight feeds delivered at their station.

CIRCULARS.

Trebi Barley, A Superior Variety for Irrigated Land. By Harry V. Marlan, Merritt N. Pope, and Louis C. Aicher, Office of Cereal Investigations, Bureau of Plant Industry. Pp. 8, figs. 2. October, 1922. (**Department Circular 208.**) Price, 5 cents.

A discussion of experiments conducted to determine the yields of Trebi Barley under varying conditions.

The Live-Stock Industry in South America. By L. B. Burk, Bureau of Agricultural Economics and E. Z. Russell, Bureau of Animal Industry. Pp. 36, figs. 24. October, 1922. (**Department Circular 228.**) Price, 5 cents.

A discussion of the present development of the live-stock industry of Argentina, Uruguay, Brazil, and Chile. Of interest to live-stock exporters and breeders.

Forest Products Laboratory. Issued by the U. S. Forest Service. Pp. 47, figs. 23. June, 1922. (**Department Circular 231.**) Price, 15 cents.

A brief account of the work and aims of the Forest Products Laboratory of Madison, Wisconsin.

The National Forests of New Mexico. Prepared in the U. S. Forest Service. Pp. 21, figs. 8. October, 1922. (**Department Circular 240.**) Price, 5 cents.

The Uniformity of Pima Cotton. By Thomas H. Kearney, Physiologist in Charge, Office of Alkali and Drought Resistant Plant Investigations, Bureau of Plant Industry. Pp. 6. October, 1922. (**Department Circular 247.**) Price, 5 cents.

Describes the methods which are used in the Salt River Valley of Arizona in providing pure planting seed of Pima long-staple cotton and in conserving the uniformity of the variety.

MISCELLANEOUS.

The Sorghums in Guam. By Glen Briggs, Agronomist. Pp. 28, pls. 9. November 4, 1922. (**Bulletin 3, Guam Agricultural Experiment Station.**) Price, 10 cents.

Leguminous Crops for Guam. By Glen Briggs, Agronomist. Pp. 29, pls. 14. August, 1922. (**Bulletin No. 4, Guam Agricultural Experiment Station.**) Price, — cents.

REPORTS.

Report of the Virgin Islands Agricultural Experiment Station, 1921. By John B. Thompson, Agronomist in Charge. Pp. 24, pls. 3. October, 1922. Price, 5 cents.

SERIALS.

Experiment Station Record. Vol. 47, No. 3, Abstract Number. October, 1922. Pp. 201-300. Price, 10 cents.

Same. Vol. 47, No. 4. Pp. 301-400. September, 1922. Price, 10 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture, issued in 2 volumes a year, 10 numbers each. Its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. The subscription price is 75 cents a volume (foreign subscriptions, \$1.25 a volume), payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

The Official Record. Vol. 1, Nos. 44 to 48, November 1, 8, 15, 22, and 29, 1922.

This publication carries official announcements and information concerning the work of the department in general and of the various bureaus.

Weather, Crops and Markets. Vol. 2, Nos. 19 to 22, November 4, 11, 18, and 25, 1922.

This publication is issued weekly and combines three important regular periodicals heretofore issued as The Market Reporter, The Monthly Crop Reporter, and the National Weather and Crop Bulletin, and which has been discontinued. The free distribution is restricted to individuals and institutions who are assisting the Department in disseminating information connected with agriculture.

Others desiring publication can purchase it from the Superintendent of Documents, the subscription price being \$1.00 a year. Address remittance to that official.

SOIL SURVEYS.

All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Denton County, Texas. By William T. Carter and M. W. Beck. Pp. 58, fig. 1 map. (**From F. O. Soils, 1918.**) Price, 15 cents.



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- Soil Survey of the El Centro Area, California.** By A. T. Straborn, E. B. Watson, A. E. Kocher, and E. C. Eckmann, of the U. S. Department of Agriculture, and J. B. Hammon, of the University of California. Pp. 59, pls. 4, fig. 1, map. (From F. O. Soils, 1918.) Price, 25 cents.
- Soil Survey of Frederick County, Maryland.** By W. J. Latimer and R. T. Avon Burke, of the U. S. Department of Agriculture, and O. C. Bruce, of the Maryland Agricultural Experiment Station. Pp. 82, fig. 1, map. (From F. O. Soils, 1919.) Price, — cents.
- Soil Survey of Mitchell County, Georgia.** By David D. Long, of the Georgia State College of Agriculture and Mark Baldwin, Earl D. Fowler, H. W. Hawker, and H. V. Geib, of the U. S. Department of Agriculture. Pp. 37, fig. 1, map. (From F. O. Soils, 1920.) Price, 15 cents.
- Soil Survey of Nicholas County, West Virginia.** By S. W. Phillips. Pp. 31, fig. 1, map. (From F. O. Soils, 1920.) Price, 15 cents.
- Soil Survey of Orange County, Florida.** By J. E. Dunn, Mark Baldwin, and Charles N. Mooney. Pp. 25, fig. 1, map. (From F. O. Soils, 1919.) Price, 15 cents.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

These contain *only* information, instruction, and notices governing the enforcement of the food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only* at prices noted.

- Bureau of Animal Industry.** No. 186. October, 1922. Pp. 113–124. November 21, 1922. Price, 5 cents.
- Bureau of Chemistry.** Supplement 140. Notices of Judgments 10451–10500. September 15, 1922. Price, — cents.
- Same.** Supplement 143. Notices of Judgments 10601–10650. Pp. 339–367. November 8, 1922. Price, — cents.
- Federal Horticultural Board.** No. 72. January–June, 1922. Pp. 99. October 27, 1922. Price, 10 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. Vol. 50, No. 8. August, 1922. Pp. 393–451, figs. 14, charts, 9. Price, 15 cents a copy, \$1.50 a year. Payable to the Superintendent of Documents.

Special Articles: The earth's atmosphere as a circular vortex. By A. L. Beck.—J. Bjerknes and H. Solberg on meteorological conditions for the formation of rain. By A. J. Henry.—Precipitation in Oregon. By E. L. Wells.—The rainfall of Brazil. By A. J. Henry.—The Etesians. By J. S. Paraskevopoulos.—Relation of sunlight to plant development. By G. D. Hearn.—Temperature of air in the ice cavern of Dobrina. By D. L. Steiner.—Severe storms near West Chester, Pa.—The Charlottesville, Virginia, tornado of August 7, 1922. By A. W. Giles.

NOTE.—The Monthly Weather Review is sent free to cooperating meteorological services, universities and institutions of learning which offer courses of instruction in meteorology, and to a limited number of individuals and students interested in the science of meteorology who make application for the Review, addressed to the Chief of the U. S. Weather Bureau and showing sufficient reasons why they should receive copies free of cost.

JOHN L. COBBS, Jr.,
Chief, Division of Publications.